



4.23oz (120g)

Size: 3.00 x 2.00 x 1.13 inches 76.2 x 50.8 x 28.7 mm

FEATURES

- RoHS Compliant
- High Power Density
- 2" x 3" Open Frame Footprint
- 90~264 VAC Input Voltage Range
- 87% High Efficiency (Except 5V models which are 85%)
- Up to 65 Watts Output Power
- Meets DOE Level VI

- Single Outputs Ranging from 5VDC to 56VDC
- -20°C to +70°C Operating Temperature Range
- No load Power Consumption < 0.2W at 230VAC
- Over Voltage, Over Load, and Short Circuit Protection
- Ultra Low Leakage Current < 189µA at 264VAC
- Both Medical 60601-1 3rd Ed. MOPP & ITE 60950-1 Approvals

DESCRIPTION

The PSIM65 series of AC/DC medical power supplies provides up to 65 Watts of output power in a compact 2 x 3 inch open frame package. This series consists of single output models ranging from 5VDC to 56VDC with a 90~264VAC input voltage range. These supplies also feature a low leakage current of less than 189 μ A at 264VAC, no load power consumption less than 0.2W, and 88% typical efficiency. These supplies are also protected against short circuit, over voltage, and over load conditions. The PSIM65 series is RoHS compliant and has both medical 60601-1 3rd edition and ITE 60950-1 safety approvals.

MODEL SELECTION TABLE												
Model Number	Input Voltage Range	Output Voltage	Output Current		Output Power	Ripple & Noise	Output Regulation					
			Min	Max.		(1)	-20°C~0°C	0°C~40°C				
PSIM040B-1Y05	90 - 264 VAC	5 VDC	0A	8A	40W	150mVp-p	±10%	±5%				
PSIM065B-1Y12		12 VDC	0A	5.416A	65W	240mVp-p	±10%	±3%				
PSIM065B-1Y15		15 VDC	0A	4.333A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y19		19 VDC	0A	3.421A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y20		20 VDC	0A	3.25A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y24		24 VDC	0A	2.708A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y28		28 VDC	0A	2.321A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y48		48 VDC	0A	1.354A	65W	300mVp-p	±10%	±3%				
PSIM065B-1Y56		56 VDC	0A	1.161A	65W	300mVp-p	±10%	±3%				



SPECIFICATIONS: PSIM65 SERIES

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

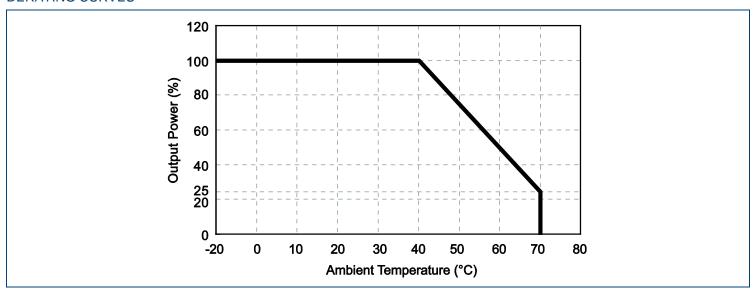
SPECIFICATION		TEST CONDITIONS	Min	Тур	Max	Unit					
INPUT SPECIFICA	TIONS	TEO TOSTISTICINO			. , , ,						
Input Voltage Range	90		264	VAC							
Input Frequency			47		63	Hz					
Input Current (rms)		115VAC and full load				1	Α				
		230VAC and full load				0.6	A				
Inrush Current		115VAC, cold start, 25°C				65	Α				
		230VAC, cold start, 25°C			130						
OUTPUT SPECIFIC	CATIONS										
Output Voltage			See Table								
Output Regulation		7/70	See Table								
Output Power		5VDC output model			40						
•		Others			65						
Output Current				See ⁻	lable	0/					
Minimum Load		Magazira d of 20MHz limited handwidth and width	0			%					
Ripple & Noise (20MHz BW)		Measured at 20MHz limited bandwidth and with a 100µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel			See Table						
		across the output		000							
Hold-up Time		115VAC and 75% load					ms				
PROTECTION											
Over Voltage Protect	tion	Shutdown and latch-off			AC re	ecycle					
Over Load Protection		Automatic recovery	105		170	%					
Short Circuit Protection					Automatic recovery						
GENERAL SPECIF	ICATIONS										
-«·		445)440	5V output model		85		0.4				
Efficiency		115VAC and full load	Others		87		%				
ENVIRONMENTAL	SPECIFICA	TIONS									
Operating Ambient Temperature		Derating linearly 2.5% per °C from 41°C to +70°C				+70	°C				
Storage Temperature Range						+85	°C				
Humidity		Non-condensing				90	%				
MTBF		Full load and 25°C ambient temperature					hours				
PHYSICAL SPECIF	ICATIONS	•		,							
Weight					4.23oz	(120g)					
Dimensions (L x W x H)			3.00 x 2.00 x 1.13 inch								
					(76.2 x 50.8 x 28.7 mm)						
Input Connector (CN1)		Mates with JST VHR-3N or equivalent			JST B3P-VH-B pitch: 7.92mm or equivalent						
Output Connector (CN2)		Mates with JST VHR-4N or equivalent			JST B4P-VH-B pitch: 3.96mm or equivalent						
SAFETY & EMC											
Safety Approvals	ITE	UL60950-1, CSA-C22.2 NO.950-1, EN60950-1, CB IEC60950-									
	Medical	UL60601-1 3rd ed, EN60601-1 3rd ed., CSA-C22.2 No.60601-1 3rd ed., IEC EN60601-1 3rd ed.									
EMC Standards	ITE	EN55022 Class B, CISPR22 Class B, FCC Part 15 Class B, CE									
	Medical	EN60601-1-2, FCC Part 18 Class B, EN55011 Class B									

NOTES

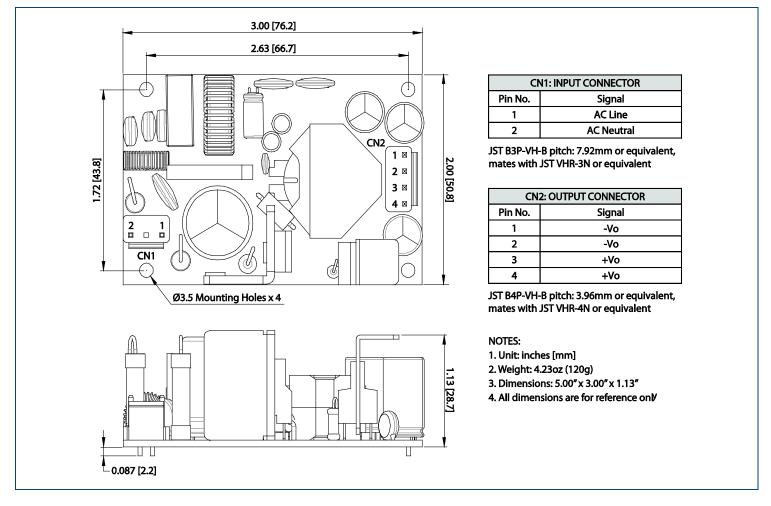
1. Ripple & noise is measured at 20MHz limited bandwidth and with a 100µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel across the output



DERATING CURVES



MECHANICAL DRAWING





COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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